



DOUBLE SUPPORTED HYDRAULIC STRAIGHTENER

MACHINE-TOOL CONCEPT FOR BETTER PERFORMANCE

Straightness of sections and rails must be guaranteed on the full length, within a maximum level of residual stress and with no damage to the surfaces. Operation must be made automatic to prevent human mistakes and guarantee the productivity with consistency of operation.

FIELD OF APPLICATION

Rolling mills for long products

MAIN BENEFITS

- nine rollers with independent drive
- hydraulic capsules under-load adjustable for spring effect compensation
- easy to operate and maintain
- automation-included software for the calculation of operation recipes
- fast learning curves with new products



MAIN FEATURES

Nine rolls are mounted on double supported shafts and independently. The roll change procedure is automatic and can be customized in accordance to the productivity and crane availability. The equipment is easy to operate with automated control of parameters, and designed with user-friendly maintenance concepts. The use of hydraulic capsules to compensate the spring effect makes the layout footprint compact.

TECHNICAL DATA

Number of rollers	9
Roller drives	individual
Maximum section IPE	750 mm
Maximum section HE	1,000 mm
Maximum section HL	1,100 mm
Time for roll / cradle change	< 25 min

AUTOMATIC OPERATION

A dedicated mechatronic package assists the operators in controlling the process. The learning curve with new products is minimized. Recipes are calculated, stored and easily called for the consistent repeatability of operation. Measuring gauges up- and downstream of the straightener are interfaced with the control system for automatic machine setting. Embedded in the automation, a dedicated stress and displacement software module runs in real time and provides the required data.

REFERENCES

- ARBZ, Kazakhstan (rails 65 kg/m)